

# COMP 2404 ABC - Winter 2026

## Introduction to Software Engineering



### People

Instructor	Darryl Hill	HP5167	Office Hours: TBD
TA's	<a href="https://brightspace.carleton.ca">https://brightspace.carleton.ca</a>	TBD	TBD

### Course Information

Class Time 2404A	Tuesday & Thursday 8:35 - 9:55
Class Time 2404B	Monday & Wednesday 8:35 - 9:55
Class Time 2404C	Monday & Wednesday 10:05 - 11:25
Class Location	Please see Carleton Central
Virtual Class	Zoom link will be posted on Brightspace
Course Website	<a href="https://brightspace.carleton.ca">https://brightspace.carleton.ca</a>

The delivery of material will consist of the following:

- **Lectures** will be given **live** and **in class**, but also recorded over Zoom and posted to Brightspace.
- **Tutorial Sessions** are weekly workshops where you may work on class work and get TA assistance. These are all purpose hours and will be your main contact with TAs.
- **Tutorials** are weekly assignments to be completed on **the Openstack submission server** by the due date indicated.
- **Assignments** will be **programmed using C++** and uploaded to **Brightspace** by the date indicated.
- **TA office hours** will be posted on **Brightspace** once finalized. However, they are in the process of being deprecated in favour of tutorial sessions (see above). You should expect very few office hours. Students who need help should attend a tutorial session.
- In addition to office hours, questions pertaining to lectures, quizzes, and general course material can be asked / answered on **Brightspace**.
- The **2 tests** will be **in person** and during class on the dates indicated. See Brightspace for calendars with test dates.
- The **final exam** will be an **in-person exam** scheduled by registrar.

### Course Description

An introduction to object-oriented software development (in C++).

**Basics of C++ development:** basic language features, programming conventions, class definitions, constructors and destructors, memory management.

**Basics of object-oriented design:** object design categories, UML class diagrams.

**Essential object-oriented techniques:** encapsulation, inheritance, polymorphism, overloading, templates, exception handling, C++ library: STL, files and streams.

**Software engineering techniques:** Strategies for memory management, program organization, testing and debugging, design patterns.

## Prerequisites

COMP 2401 with C- or above. Please note that you require a C- in COMP2404 in order to take COMP3004. or all course prerequisites, see the course calendar here:  
[calendar.carleton.ca/undergrad/](https://calendar.carleton.ca/undergrad/)

## Reference Textbook

There is a textbook provided by Christine Laurendeau. Details on how to obtain it will be provided.

## SCS Laptop Requirement

Every student that has been enrolled in a 1000-level (i.e., first year) course offered by the School of Computer Science after the 2020/2021 school year is required to have a laptop. This includes COMP1001, COMP1005, and COMP1006. For more information, please visit

<https://carleton.ca/scs/scs-laptop-requirement/>

and then review the requirements at

<https://carleton.ca/scs/scs-laptop-requirement/laptop-specs/>.

## E-Proctoring

Please note that tests and examinations in this course will likely use a remote proctoring service provided by Scheduling and Examination Services. You can find more information at <https://carleton.ca/ses/e-proctoring/>.

## Evaluation

Final grades will be determined using the scheme described below, and no extra credit assignments will be provided under any circumstances.

See the **Calendar** posted to Brightspace for tentative due dates for assessments.

Participation (Wooclap)	5%
Tutorials (5) (2% each)	10%
Assignments (4) (6.25% each)	25%
<b>Assignments Total</b>	<b>40%</b>
Tests (2) (15% each)	30%
Final Examination (1)	30%
<b>Tests Total</b>	<b>60%</b>

Marks will be posted on Brightspace and / or available on the submission server.

Wooclaps are short exercises that are held during class on the Wooclap platform.

The **tests** will be held **during class**, and *may* require the use of your personal computer and possibly e-proctoring software. It is **NOT** possible to write the tests remotely. They are in-person, **NO EXCEPTIONS**.

The **final exam** will be held at a place and time scheduled by the registrar, and *may* require the use of your personal computer and possibly e-proctoring software. It is **NOT** possible to write the exam remotely - it in-person, **NO EXCEPTIONS**.

Completing tutorials is **mandatory**. No exemptions will be made for missed tutorials.

Completing assignments is **mandatory**. The assignment component of your final grade is computed from the score you receive on each assignment; the lowest assignment grade will not be “dropped”. You are expected to work on your assignments consistently once they are released (uploading your progress at least daily). As a result, you will never be granted an exemption from an assignment, even for a legitimate medical reason.

**Late assignments and tutorials are never accepted.**

It is **your responsibility** to ensure that your test, tutorial, and assignment marks posted to Brightspace and the submission server are correct within one week of the date the marks were released. Concerns or complaints about grading must be communicated (first to the teaching assistant, then, if the result is unsatisfactory, to the instructor) within that time. After one week, all marks are considered final and will not be changed under any circumstances.

## Collaboration Policy

★ There is absolutely no collaborating allowed for the tests.

Collaboration on assignments and tutorials is acceptable but only at the level of discussion. When coding your solutions, please work on your own. If you need help, please contact a TA or your instructor. Posting assignment solutions or partial solutions on discussion boards before the due date and time is also prohibited.

## Academic Integrity

The exact manner, limit and expectations on AI use will be explicitly stated on the assignments. Any use of AI outside of what is explicitly stated is considered **academic misconduct**. This includes, but is not limited to, chatbots (e.g., ChatGPT, Google Bard, Bing Chat), code generators (e.g., CoPilot, Code Llama) research assistants (e.g., Elicit), and image generators (e.g., Stable Diffusion, Dall-E), etc.

You will likely write code on your computer for the tests and final exam. Use of generative AI, search engines, forbidden websites, and anything else not explicitly permitted during the tests, constitutes a **academic misconduct**. If you attempt to access or write the tests outside of the designated test area, that is also **academic misconduct**.

If you are unsure of the expectations regarding academic integrity (how to use and cite references,

if unauthorized collaboration with lab- or classmates is permitted (and, if so, to what degree), then you must ASK your instructor. Sharing assignment or quiz specifications or posting them online (to sites like Chegg, CourseHero, OneClass, etc.) is ALWAYS considered academic misconduct. You are NEVER permitted to post, share, or upload course materials without explicit permission from your instructor. Academic integrity offences are reported to the office of the Dean of Science. Information, process and penalties for such offences can be found on the ODS webpage: <https://science.carleton.ca/students/academic-integrity/>

## Late and Missed Work Policies

**Late Assignments:** Late assignments are not accepted. Assignments submissions are handled electronically (i.e., through Brightspace) and there is no "grace period" with respect to a deadline - an assignment submitted even one minute **after the deadline is late** and will **receive a mark of zero**.

**Technical problems do not exempt you from this requirement**, so if you wait until the last minute and then have issues with your connection, you will still receive the penalty. Consequently, you are advised to

- periodically upload your progress (i.e., upload your progress at least daily),
- attempt to submit your final submission at least one hour in advance of the due date and time.

**Missed Assignments:** Because assignments are posted well in advance of their due dates, **illness does not excuse a student from completing an assignment**. No provision is made for missed assignments, and no extra credit assignments will be available.

**Missed Tests:** If you miss a test for any reason, the weight of that test will be transferred to the final exam. You are not permitted to miss more than one test. If you miss more than one test, additional missed tests will count for zero.

## Additional Notes

In addition to the time spent attending lectures, students can expect to spend **between nine and twelve (9-12) hours per week** on this course. Students are responsible for all course materials, including lecture notes, and all materials discussed in class and on any of the official discussion boards.

Students are asked to pose all questions related to course content using **the official discussion boards on Brightspace**; students should not email the instructor directly unless the question contains **confidential information** or is of a personal nature.

The instructor will attempt to answer every student email received **within three business days** of the time the message was received, unless the email requests information already posted on Brightspace or in the course outline. To ensure that all announcements are received, students are expected to check their email on a daily basis.

All materials created for this course (including, but not limited to, lecture notes, in-class examples, assignments, examinations, and posted solutions) **remain the intellectual property of the**

**instructor.** These materials are intended for the personal and non-transferable use of students registered in the current offering of the course. **Reposting, reproducing, or redistributing any course materials**, in part or in whole, without the written consent of the instructor, **is strictly prohibited.**

## SCS Computer Laboratory

SCS students can access one of the designated labs for your course. The lab schedule can be found at: <https://carleton.ca/scs/tech-support/computer-laboratories>. All SCS computer lab and technical support information can be found at: <https://carleton.ca/scs/technical-support>. Technical support is available in room HP5161 Monday to Friday from 9:00 until 17:00 or by emailing [SCS.Tech.Support@cunet.carleton.ca](mailto:SCS.Tech.Support@cunet.carleton.ca).

## Undergraduate Academic Advisor

The Undergraduate Advisor for the School of Computer Science is available in Room 5302C HP, by telephone at 520-2600, ext. 4364 or by email at [scs.ug.advisor@carleton.ca](mailto:scs.ug.advisor@carleton.ca).

The undergraduate advisor can assist with information about prerequisites and preclusions, course substitutions/equivalencies, understanding your academic audit and the remaining requirements for graduation. The undergraduate advisor will also refer students to appropriate resources such as the Science Student Success Centre, Learning Support Services and the Writing Tutorial Services.

## University Policies

Full academic regulations are found in the University's calendar (<http://calendar.carleton.ca/undergrad/regulations/academicregulationsoftheuniversity/>) Some excerpts are below.

### *Requests for Academic Accommodation*

You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

### *Academic Accommodations for Students with Disabilities*

If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or [pmc@carleton.ca](mailto:pmc@carleton.ca) for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. Visit the PMC website: <http://carleton.ca/pmc>

### *Religious Obligations*

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit <https://carleton.ca/equity/focus/discrimination-harassment/religious-spiritual-observances/>

### ***Pregnancy Obligation***

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: <http://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf>

### ***Survivors of Sexual Violence***

As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and is survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: <http://carleton.ca/sexual-violence-support>

For more information on academic accommodation, please contact the departmental administrator or visit: <http://students.carleton.ca/course-outline>

---